

What is claimed is:

1. An automatic dishwashing detergent composition comprising:
  - (a) from 5% to 90% by weight of the composition of a builder ;
  - (b) from 0.1% to 15% by weight of the composition of a nonionic surfactant, wherein said nonionic surfactant is selected from the group consisting of:
    - (i) a nonionic surfactant of the formula
 
$$R^1(EO)_a(PO)_b(BO)_c$$
 wherein  $R^1$  is a linear or branched  $C_6$  to  $C_{20}$  alkyl; a is from 2 to 30; b is from 0 to 30; c is from 1 to 30; and said nonionic surfactant has an X/Y number less than 1.90;
    - (ii) a nonionic surfactant of the formula:
 
$$R^1O[CH_2CH(R^3)O]_eR^2$$
 wherein  $R^1$  is a linear or branched, saturated or unsaturated, aliphatic or aromatic hydrocarbon radicals having from 1 to 30 carbon atoms;  $R^2$  is a linear or branched, saturated or unsaturated, aliphatic or aromatic hydrocarbon radicals having from 1 to 30 carbon atoms, optionally containing from 1 to 5 hydroxy groups; and further optionally substituted with an ether group;  $R^3$  is H, or a linear aliphatic hydrocarbon radical having from 1 to 4 carbon atoms; e is an integer having an average value from 1 to 40, wherein  $R^2$  can optionally be alkoxylated, wherein said alkoxy is selected from ethoxy, propoxy, butyloxy and mixtures thereof; and
    - (iii) mixtures thereof;
  - (c) optionally, from 0.1% to 40% by weight of the composition of a bleaching agent; and
  - (d) adjunct materials.
2. The automatic dishwashing detergent composition according to Claim 1 comprising a metal-containing bleach catalyst selected from manganese-containing bleach catalysts, cobalt-containing bleach catalysts, and mixtures thereof.
3. The automatic dishwashing detergent composition according to any of Claims 1-3 further comprising a co-surfactant selected from the group consisting of low cloud point nonionic, high cloud point nonionic, anionic and mixtures thereof.

11/03/00 02:00:00

 503  
a-1

4. The automatic dishwashing detergent composition according to any of Claims 1 to 3 comprising a bleach activator material, preferably tetraacetythylenediamine, cationic bleach activators, and mixtures thereof.
5. The automatic dishwashing detergent composition according to any of Claims 1 to 4 in the form of granules, tablets, or liquidgels.
6. The automatic dishwashing detergent composition according to any of Claims 1 to 5 comprising less than 0.1% of active suds suppressing agent.
7. The composition according to any one of Claims 1 to 6 wherein said a nonionic surfactant is selected from the group consisting of C<sub>9</sub>,<sub>11</sub>PO<sub>3</sub>EO<sub>13</sub>PO<sub>15</sub>; C<sub>9</sub>,<sub>11</sub>PO<sub>3</sub>EO<sub>13</sub>BO<sub>6</sub>; C<sub>9</sub>,<sub>11</sub>PO<sub>3</sub>EO<sub>13</sub>BO<sub>3</sub>; C<sub>9</sub>,<sub>11</sub>EO<sub>13</sub>BO<sub>6</sub>; C<sub>9</sub>,<sub>11</sub>EO<sub>13</sub>BO<sub>3</sub>; C<sub>9</sub>,<sub>11</sub>BO<sub>1</sub>EO<sub>13</sub>BO<sub>3</sub>; C<sub>9</sub>,<sub>11</sub>EO<sub>8</sub>BO<sub>3</sub>; C<sub>12</sub>,<sub>15</sub>EO<sub>7</sub>BO<sub>2</sub>; C<sub>9</sub>,<sub>11</sub>EO<sub>8</sub>BO<sub>2</sub>; C<sub>9</sub>,<sub>11</sub>EO<sub>8</sub>BO<sub>1</sub>; C<sub>12</sub>,<sub>13</sub>EO<sub>6.5</sub>TBO<sub>1</sub>; C<sub>9</sub>,<sub>11</sub>EO<sub>8</sub>C(CH<sub>3</sub>)<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>; C<sub>11</sub>/<sub>15</sub>EO<sub>15</sub>PO<sub>6</sub>C<sub>12</sub>/<sub>14</sub>; C<sub>9</sub>,<sub>11</sub>EO<sub>8</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>; and mixtures thereof.
8. The automatic dishwashing detergent composition according to any of Claims 1-7 comprising a deterative enzyme selected from the group consisting of proteases, lipases, cellulases, amylases, and mixtures thereof.
9. The automatic dishwashing detergent composition according to any of Claims 1-8 wherein said bleaching agent is dibenzoyl peroxide.
10. A method of washing tableware in a domestic automatic dishwashing appliance, said method comprising treating the soiled tableware in an automatic dishwasher with an aqueous alkaline bath comprising an automatic dishwashing composition according to any of Claims 1-9.

ADD  
62